

1 Claims:

2 1. An alloy characterized by improved oxidation and wear resistance at elevated

3 temperatures consisting essentially in weight percent of about:

4

5 Percent

6 Carbon 0.07 - 1.00

7 Manganese 1.00

8 Silicon 1.00

9 Chromium 26.00 - 30.00

10 Nickel 4.00 - 6.00

11 Tungsten 18.00 - 21.00

12 Boron .005 - 0.100

13 Vanadium 0.75 - 1.25

14 Iron 3.00

15 Lanthanum 0.02 - 0.12

16 Cobalt remainder

17

18 2. A hardface material composition having improved oxidation and wear resistance at

19 elevated temperatures consisting essentially in weight percent of about:

1

2

Percent

3

Carbon

0.07 - 1.00

4

Manganese

1.00

5

Silicon

1.00

6

Chromium

26.00 - 30.00

7

Nickel

4.00 - 6.00

8

Tungsten

18.00 - 21.00

9

Boron

.005 - 0.100

10

Vanadium

0.75 - 1.25

11

Iron

3.00

12

Lanthanum

0.02 - 0.12

13

Cobalt

remainder

14

15

3. A hardface material composition having improved oxidation and wear resistance at

16

elevated temperatures consisting essentially in weight percent of about:

17

Percent

18

Carbon

0.08 max

19

Silicon

3.00 - 3.80

20

Phosphorus

0.03 max

21

Sulfur

0.03 max

22

Chromium

16.50 - 18.50

1	Molybdenum	27.00 - 30.00
2	Nickel + Iron	3.00 max
3	Nitrogen	0.07 max
4	Oxygen	0.05 max
5	Lanthanum	0.02 - 0.12
6	Cobalt	remainder

1. Molybdenum  
 2. Nickel + Iron  
 3. Nitrogen  
 4. Oxygen  
 5. Lanthanum  
 6. Cobalt